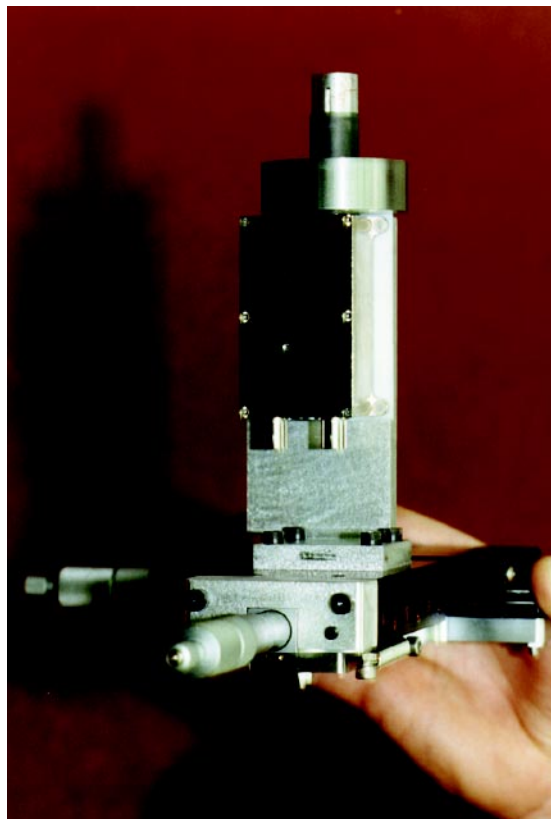


PN99-140-1-18A



PN99-140-1-4A

In Cell Examination System

Problem

The INEEL's Integrated Spent Nuclear Fuel Program needed to visually examine highly radioactive nuclear reactor fuel elements and determine their fissile material content.

Baseline Technology

Visual examination and destructive analysis at a separate INEEL facility.

Innovative Technology

The In Cell Examination System is a remotely operated device that visually inspects and non-destructively analyzes highly radioactive spent fuel elements.

Comparison

This system enabled visual examination and non-destructive analysis of spent fuel elements at the receiving facility.

Benefits

Use of this system resulted in an estimated cost avoidance of over \$1 million by eliminating spent fuel element transfer and destructive analysis.



SPENT NUCLEAR FUEL PROGRAM

Project: ID-SNF-102
Integrated Spent Nuclear Fuel Program